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U. S. DEPARTMENT OF AGRICULTURE

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HYDRAULIC TABLES

Reviewed by Evan Carroon, Agricultural Engineer, Soil Conservation Service

Hydraulic Tables by the Army Corps of Engineers contains an important new table, which is the solution of Manning's formula for various coefficients of roughness, n from .010 to .175 with hydraulic radii, r from .2 to 50 and slopes, s from .00005 to .1.

The volume also contains the Bureau of Reclamation tables, Characteristics of Trapezoidal Channels, extended to 200-foot bottom widths, 50-foot depths, and 4 to 1 side slopes.

There are also extensions of tables from Horace W. King's Handbook of Hydraulics, and extensions of the common tables of fractional powers of numbers, which are not so important to most Soil Conservation engineers.

One copy is available on loan from USDA Library. The volume is for sale by the Superintendent of Documents at \$1.00.

HYDRAULIC TABLES. Mathematical tables project. 565 p. U. S. Govt. print. off., 1944 157.89 M4P4 Ed.2

SELECTED BOOKS AND PAMPHLETS

AGRICULTURE. HISTORY

THE FARMER'S LAST FRONTIER: AGRICULTURE, 1860-1897, by F. A. Shannon. 474 p. Farrar & Rinehart 1945 30.9 Sh1

A history of agriculture during the years between the outbreak of the Civil War and the close of the 19th century. During this period agriculture reached out to its last frontier and the author emphasizes the effects of this movement upon the farmers and upon the economy of the nation. He stresses the role played by soils, climate, and other natural forces in the development of American farming, but, never forgetting the people who were the farmers, he has tried to view the scene as they saw it and to picture the farmer as he affected and was influenced by the world in which he lived.

COOPERATIVES

COOPERATIVE COMMUNITIES AT WORK, by F. F. Infield. 201 p. Dryden press 1945
282.2 In32

The story of cooperative communities in the United States, Mexico, Soviet Russia, and Palestine, with applications to problems of postwar resettlement.

F.S.A. cooperative projects are discussed in Chapters 5 and 6.

FARMERS & FARMING

THE FARMER AND THE REST OF US, by Arthur Moore. 226 p. Little, Brown and co. 1945
281.12 M78

Here is the story of the American farmer of the corn belt with his traditions and prejudices, his farm bloc, his hatred of labor, and his passion for high prices. Mr. Moore is editor of the DAILY PANTAGRAPH published in McLean County, Illinois. In considering local conditions, he raises questions which apply to agriculture throughout the nation. The author discusses soil conservation, farming methods farm policy, and prices in the light of the experience of farmers he knows intimately.

The book is a plea to city dwellers to understand - and act on - their most pressing problem - food.

FERTILIZERS

FERTILIZERS FOR GREENHOUSE AND GARDEN CROPS, by Alex Laurie and J. E. Edmond.
147 p. De La Mare 1929. 57 L37

This book is designed to outline a soil management and fertilizer program that is both adequate and comparatively simple.

FLOWERS

THE FLOWER ENCYCLOPEDIA AND GARDENER'S GUIDE by A. E. Wilkinson. 518 p.
Blakiston, 1947. 96.02 W65

The book is arranged in two parts. Part I is the "Flower Encyclopedia," in which all of the favorite flowers and all the less familiar ones which are most suitable for the home garden are presented in alphabetical order. Part II is the "Gardener's Guide," giving the important facts which apply to the garden as a whole. Numerous black and white illustrations and several tables listing flowers by height, color and blooming time add to the usefulness of the book.

FORESTRY

BEHOLD OUR GREEN MANSIONS; a book about American forests, by R. H. D. Boerker.
313 p. Univ. of North Carolina press 1945 92.61 B67B

What has happened to America's forest wealth? How much of our virgin timber is left? Can private owners grow timber as a profitable crop? To what extent should government control be applied? In answering these and other questions the author presents the story of America's forests, and stresses the conservation principle of "forest restoration for multiple use, with human welfare as the ultimate object."

HORSES

OUR AMERICAN HORSE by Dorothy Hogner. 114 p. Nelson, 1944. L2 H672

This is a history of the American horse. Beginning with the Mustang, the narrative progresses to our own day and the part the horse played in the American war effort. The book tells of the achievements of some of America's most renowned horses - Don Patch, Seabiscuit, Mioland, Man O'War, and many others. There are excellent illustrations by Nils Hogner.

IRRIGATION

IRRIGATION PRINCIPLES AND PRACTICES, by O. W. Israelsen. L22 p. Wiley 1932
55 Is7

This popular text emphasizing the agricultural phases of irrigation has been in great demand. The Library now has three copies for your use.

LIVESTOCK

ELEMENTS OF LIVESTOCK JUDGING by W. W. Smith. 294 p. Libnincott, 1941. L0 Sm6

A manual on judging swine, cattle, sheep, horses and mules. Includes information on market types, scoring, show classifications etc. Many illustrations are used to present the material graphically.

LIVESTOCK

TYPES AND MARKET CLASSES OF LIVE STOCK, by H. W. Vaughan. 608 p. College book co., 1942. L0 V46 Ed.22

This volume describes the breeds of cattle, sheep, goats, hogs, horses, ponies, and jacks. The strong points of each breed are mentioned and the modern type of each is emphasized. Important bloodlines are presented in genealogical tables.

LUMBER INDUSTRY

LUMBER AND LABOR, by V. E. Jensen. 314 p. Farrar & Rinehart 1945 283 J45

Only in recent years has the lumbering industry been organized. This is the story of unionization and of interunion conflicts, of bitter industrial struggles and of the lumberjacks, lumbermen, and sawmill workers who have made possible America's most distinctive migratory, frontier industry.

PLANT NUTRITION

LECTURES ON THE INORGANIC NUTRITION OF PLANTS, by D. R. Hoagland. 226 p. Chronica botanica co., 1944 163.34 H65.

The purpose of this volume, according to the author, "is to present a general perspective of several important aspects of the field of plant nutrition, with a broad interpretation of this term in mind."

Contents: A survey of problems of plant nutrition.- Micronutrient chemical elements and plant growth.- The absorption and accumulation of salts by plant cells.- Upward movement and distribution of inorganic solutes in the plant.- The growth of plants in artificial media in relation to the study of plant nutrition.- Some biochemical problems associated with salt absorption.- Aspects of the potassium nutrition of plants as illustrating problems of the system, soil-plant-atmosphere.

SHEEP

BREEDS OF SHEEP, by J. F. Walker. 128 p. Breeder publications, 1942. 45 W15B

The origination of the breeds, the objective sought in their development, how the types have been maintained, and how the breeds have been modified to meet breeders' ideas or commercial demand are the topics discussed in this book. Considerable space has been devoted to the Merino, the Southdown, and the Leicester breeds.

KARAKUL SHEEP, THE PRODUCERS OF PERSIAN LAMBSKINS, by P. V. Ewing. 127 p.

Breeder publications, 1943. 45 Ew5K

Contents.- Origin of the Karakul Sheep.- World Distribution.- Karakuls in America.- Experimental Work on Karakuls.- Feeding.- Breeding of Karakuls.- Management of the Flock.- Karakul Products.- Marketing of the Skins.- Economic Consideration.

THE WEST

IF THE PROSPECT PLEASES: the West the guidebooks never mention, by Ladd Haystead.

208 p. University of Oklahoma press 1945 280.003 H33

The farm editor of FORTUNE magazine has written a candid analysis of the West, its people, and its customs, its past and its future. Each major industry of the region - lumbering, oil, cattle, sheep, mining, agriculture - is examined. The importance of new developments in farming (through irrigation and other projects) is scrutinized. The "tourist trade" politics, and discriminatory freight rates are also discussed in this comprehensive and critical view of the West as it is today.

WRITING

A DICTIONARY OF MODERN ENGLISH USAGE. by H. W. Fowler. 742 p. Oxford univ. press, 1944. 200 F82D

THE SECRETARY'S HANDBOOK: a manual of correct usage, by S. A. Taintor and K. M. Monro. 6th ed. 540 p. Macmillan 1941. 200.3 T13S

A completely revised edition containing rules with illustrations of correct form in English and various types of letters and forms of business writing including resolutions, minutes, telegrams, petitions and reports.

SELECTED USDA AND STATE PUBLICATIONS

DATES

Powers, H. P. DATE PRODUCTION IN ARIZONA 28 p. Ariz. Ext. Ser. Cir. 125
May 1945 275.29 Ar47C

EGGS

John Drew, O. F. REDUCING DAMAGE TO EGGS AND EGG CASES 24 p. USDA Misc. Pub.
564 May 1945 14484W

EARLY BUILDINGS

Kelley, J. B. and Insko, W. M., Jr. SHED-ROOF POULTRY HOUSE FOR THE LAYING FLOCK. 24 p. Ky. Ext. Cir. 607. Nov. 1944 275.29 W41C

FOREIGN TRADE

A POST-WAR FOREIGN TRADE PROGRAM FOR UNITED STATES AGRICULTURE. 26 p. USDA Intérbureau committee on post-war programs AIS-15 April 1945 1.90 C2In

HOME ECONOMICS

HOUSEHOLD EQUIPMENT ITS CARE AND SIMPLE REPAIR 36 p N. M. Ext. Ser. Ext. Circ. 187 Oct. 1947 275.29 NL63E

Marsh, Paul B. and others TESTING FABRICS FOR RESISTANCE TO MILDEW AND ROT 22 p USDA Tech. Bul. 892 June 1945 1 Ag84Te

Smith, Margaret PATTERN ALTERATION 140 p USDA Farmers' Bulletin 1968 Apr. 1945 1 Ag84F

Woodard, E. M. SERVING MEALS AT HOME. 14 p. N. M. Ext. Cir. 197. Jan. 1945 275.29 NL63E

INSECT

BEAN BEETLE CONTROL 10 p N. M. Ext. Ser. Ext. Circ. 197 May 1944 275.29 NL63E

PLANTS - POISONOUS

Featherly, E. I. SOME PLANTS POISONOUS TO LIVESTOCK IN OKLAHOMA. 16 p. Okla. Exp. Sta. Cir. 118. April 1945 100 OK4C

PLOTS

Ashby, Wallace and Graves, A. H. FLOWING WITH WOLDBOARD PLOTS. 24 p. USDA Farmers' Bul. 1690. Rev. May 1945. 1 Ag84F

REPORTS

Colorado Agricultural Experiment Station. 57TH ANNUAL REPORT 1947-48 144 p Fort Collins, Col. 1944 100 C71Sa

Utah. Agricultural experiment station. Biennial report 1942-1943. 44 p. Utah Agr. Exp. Sta. Bul. 315. Dec. 1944 100 Ut1b

WARTIME AGRICULTURAL RESEARCH, 51st Annual Report of the Idaho Agricultural Experiment Station. For the year ending June 30, 1944 63 p Idaho Agr. Exp. Sta. Bul. 255 July 1944 100 Id1b

RURAL ELECTRIFICATION

RURAL ELECTRIFICATION AFTER THE WAR 18 p USDA AIS-11 Feb. 1945 1 Ag84Ai

SAFETY

McNeill, John W. FARM AND FARM HOME SAFETY, 1941-1944 A LIST OF REFERENCES 21 p USDA Lib. Library List No. 14 April 1945 1.916 L412

SAFE USE AND STORAGE OF GASOLINE AND KEROSENE ON THE FARM 14 p. USDA Farmers' Bul. 1678. Rev. May 1945. 1 Ag84F

SHEEP

Bell, T. D. BREEDING STUDIES IN RAMBOUILLET EWES AND RAMS 2 p N. M. Agr. Exp. Sta. Press Bul. 1003 June 8, 1945 100 W46S

TREES

Fowler, Marvin E. REDUCING DAMAGE TO TREES FROM CONSTRUCTION WORK 26 p USDA Farmers' Bul. 1967 June 1945 1 Ag84F

WOOL

Christie, James W. GRADING WOOL 24 p USDA Farmers' Bul. 1805 rev. Apr. 1945 1 Ag84F

"Standing libraries will signifie little in a countrie where persons must ride for some miles to look into a book; but lending libraries which come to them without charge may tolerably well supply the vacancy."Rev. Thomas Fray of London, in 1697.

HOW TO BORROW PUBLICATIONS

Visit the library; telephone; or submit your requests for publications on Form AD-245.

If you do not have a supply of these, request them from your central supply office. For instructions on how to use Form AD-245 see the NEWSLETTER for February 1944.

Loan Period: Current periodicals may be kept for 3 days. Books are loaned for two weeks in Albuquerque, and for one month to the field unless there is a long waiting list. Renewals will be granted if there is no reserve on the publication desired. All material on file is for your use. You are invited to visit the Library.

PLEASE NOTE

When there are several requests for the same publication it may be some time before it can be sent to all those desiring it.

When asking for a particular publication let us know if we can substitute other books or bulletins with similar information if that one is in use. The specific publication requested will be sent later when it becomes available.

Please return publications when they are due - we do not like to send overdue notices and you do not like to receive them. Save your time and ours by returning publications on time.



